

PATENT
Atty. Dkt. No. AMAT/4714.P1/W&T/M/CVD/R/KK

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Xi et al.

Serial No.: 09/678,266

Confirmation No.: 4642

Filed: October 3, 2000

For: Method and Apparatus for
Depositing Refractory
Metal Layers Employing
Sequential Deposition
Techniques to Form a
Nucleation Layer§
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Group Art Unit: 2827

Examiner: Zameke, D.

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TECHNOLOGY CENTER 2800

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

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number indicated by the named Examiner, namely, (703) 308-
7722, to the attention of the named Examiner on May 6, 2002.May 6, 2002
Date

B. Todd Patterson

RESPONSE TO OFFICE ACTION DATED APRIL 23, 2002

In response to the Office Action dated April 23, 2002, having a shortened statutory period for response set to expire on May 23, 2002, Applicants elect claims 1-14, identified as Invention 1 by the Examiner, with traverse.

THE PENDING CLAIMS:

1. A method for forming a layer on a substrate disposed in a processing chamber, said method comprising:

forming a nucleation layer by serially exposing said substrate to first and second reactive gases; and

forming atop of said nucleation layer, a bulk deposition layer employing vapor deposition to subject said nucleation layer to a bulk deposition of a compound contained in one of said first and second reactive gases.

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FACSIMILE COVER SHEET

DATE: May 6, 2002	FILE NO: AMAT/4714.P1/W&T/WCVD/RKK
TO: David Zarneke	FAX NO: 703/308-7722
COMPANY: U.S. Patent Office	
FROM: B. Todd Patterson	PAGE(S): 6 with cover
MESSAGE:	Original to Follow <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

RESPONSE TO FINAL OFFICE ACTION DATED APRIL 23, 2002

U.S. Serial No.: 09/678,266
Filing Date: October 3, 2000
Inventor: Xi et al.
Examiner: David Zarneke
Group Art Unit: 2827
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